

IN THE ABSTRACT

Please enter the following changes:

Page 18, line 2, ✓ replace "apparatus and process" with --apparatus, process, and method--;

line 3, ✓ replace "are" with --is--;

line 3, ✓ delete "apparatus according to the";

line 5, ✓ replace "element, for input" with --element for inputting--;

line 6, ✓ replace "monitor," with --monitor;--;

line 6, ✓ replace "signal," with --signal;--;

line 7, ✓ replace "the" with --a--;

line 7, ✓ replace "si" with --is--;

line 8, ✓ after "of" insert --the--;

line 8, ✓ after "input" insert --to--; and

line 8, ✓ replace "channel," with --channel;--.

IN THE CLAIMS

Please amend claims 1 through 11 and add claims 12 through 20, as follows:

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1. (Amended) An apparatus [for inputting and detecting a display data channel by which data relating to a monitor are transmitted to a computer in manufacturing a monitor], comprising:
~~an inputting device [for] inputting [the] a display data channel of [the] a monitor into [the]~~

4 a computer;

5 a driving device [for] driving the inputting device with a predetermined electric signal;

6 an interfacing section [for] indicating whether the display data channel of the monitor is
7 inputted into the computer and [for] outputting the same voltage signal as an initial signal, the
8 outputted voltage signal [which] is switched at a different time according to a result of inputting the
9 display data channel; and

10 [means] a controller for controlling the driving device by generating the predetermined
11 electric signal, for analyzing the output signal from the interfacing section, and for determining
12 whether or not the result of inputting the display data channel is [a] correct.

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1 2. (Amended) An apparatus [for inputting an detecting a display data channel] as claimed
2 in claim 1, wherein the inputting device includes a mouse.

1 3. (Amended) An apparatus [for inputting an detecting a display data channel] as claimed
2 in claim 1, wherein the inputting device includes a scanner.

1 4. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
2 in claim 1, wherein the controller for the controlling and determining [means] includes a
3 programmable logic controller.

5. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
in claim 1, wherein the interfacing section comprises:

3 a [zener] Zener diode connected with a pin [for] of the display data channel, [which] the
4 display data channel connects the computer and the monitor;

5 a transistor having a base connected to an output terminal of the [zener] Zener diode and
6 being turned-on and turned-off according to a presence of the display data channel;

7 a relay [for] including a relay coil magnetized when the transistor is turned-on and a first and
8 second relay switches turned-on when the transistor is turned-off; and

9 a light emitting diode for emitting light when the first relay switch is turned-on [so that] to
10 identify the inputting of the display data channel [can be identified].

1 6. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
2 in claim 1, wherein the inputting device includes a mouse and a scanner and further comprises a
3 switch to select one of the mouse and the scanner.

4 7. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
5 in claim 1, wherein after the display data channel is inputted into the computer and the interfacing
6 section outputs a high frequency signal, the [determining means] controller determines that the
7 display data channel is normally inputted into the computer if the interfacing section outputs the
8 same signal as the initial signal at a first time, and after the interfacing section continues to output
the high frequency signal for a predetermined times after the first time, the [determining means]
controller determines that the display data channel is abnormally inputted into the computer if the
interfacing section outputs the same signal as the initial signal at a second time.

1 8. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
2 in claim 7, wherein the first time is in a range of [750 msec-1.5 sec] 750 milliseconds to 1.5 seconds,
3 and the second time is in a range of [3.5 sec-4.5 sec] 3.5 seconds to 4.5 seconds.

1 9. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
2 in claim 7, wherein when the display data channel is abnormally inputted into the computer, the
3 controller for the controlling and determining [means] raises an alarm by [means of] an alarm
4 generating device.

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1 10. (Amended) An apparatus for inputting and detecting a display data channel as claimed
2 in claim 1, wherein the driving device includes a relay switch, [which] the relay switch is in parallel
3 connection to a contact point for inputting the display data channel of the inputting device and the
4 relay coil magnetized by the predetermined electric signal to operate the relay switch.

1 11. (Amended) An apparatus [for inputting and detecting a display data channel] as claimed
2 in claim 10, wherein after a controlling and detecting signal for the monitor is supplied, the
3 controller for the controlling and detecting [means] magnetizes the relay coil and turns-on the relay
4 switch at a predetermined time thereafter [so that] to input the display data channel [is inputted] into
5 the monitor.

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2 --12. A method, comprising:

inputting a display data channel to a monitor by an inputting device;

3 driving said inputting device with a predetermined electric signal by a driving device;
4 indicating whether said display data channel of said monitor is inputted into said computer
5 and outputting a signal according to a result of said inputting by an interfacing section;
6 controlling said driving device by generating said predetermined electric signal;
7 analyzing said output signal from said interfacing section; and
8 determining whether said result of said inputting said display data channel is correct.

1 --13. A method as claimed in claim 12, with said inputting device including a mouse.

1 --14. A method as claimed in claim 12, with said inputting device including a scanner.

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2 --15. A method as claimed in claim 12, with said controlling and determining including a
programmable logic controller.

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3 --16. A method as claimed in claim 15, with said programmable logic controller magnetizes
a relay coil of said driving device and turns on a relay switch of said driving device to input said
display data channel to said monitor.

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3 --17. A method as claimed in claim 12, with said interfacing section comprising:
4 connecting a Zener diode between a display data channel pin and a transistor of said
interfacing section;
turning on and off a transistor according to a presence of said display data channel connecting

5 said transistor having a base to an output terminal of said Zener diode;

6 magnetizing a coil of a relay when the transistor is turned-on and first and second relay
7 switches turned-on when said transistor is turned-off; and

8 emitting light by a light emitting diode when said first relay switch is turned-on to identify
9 said inputting of said display data channel.

10 --18. A method as claimed in claim 12, with said inputting device including a mouse and a
11 scanner and further comprising a switch to select one of said mouse and said scanner.

12 ~~--19. A method as claimed in claim 12, with said determining step determines that said~~
13 ~~display data channel is normally input into said computer if said interfacing section outputs a same~~
14 ~~high frequency signal as originally input as said predetermined electric signal at a first time; and~~
15 ~~said determining step determines that said display data channel is abnormally input into said~~
16 ~~computer after said interfacing section continues to output said high frequency signal at a second~~
17 ~~time.~~

18 --20. A method as claimed in claim 19, with said first time being in a range of 750
19 milliseconds to 1.5 seconds, and said second time is in a range of 3.5 seconds to 4.5 seconds.